

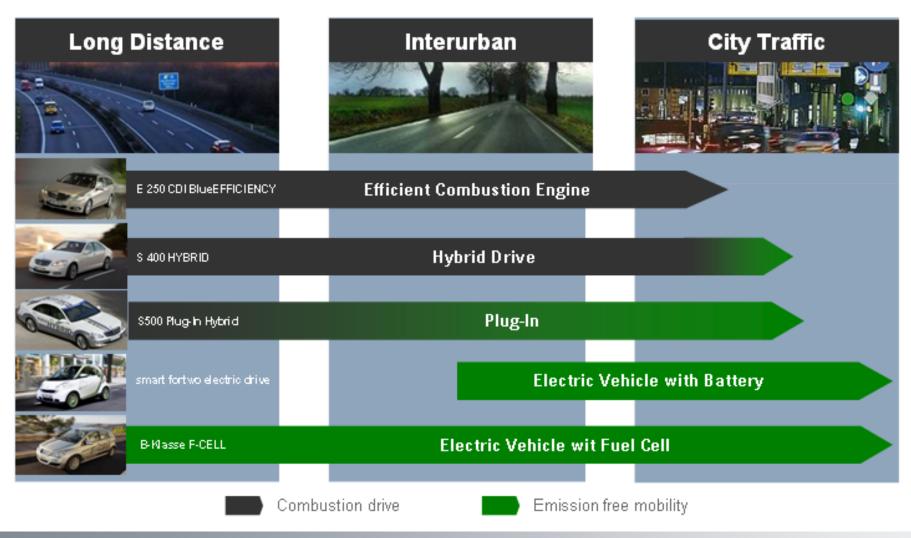
Status Update of Daimler's Fuel Cell Vehicle Activities in California

Mercedes-Benz RDNA, Inc.
John Tillman

Presentation to the California Energy Commission June 22, 2012

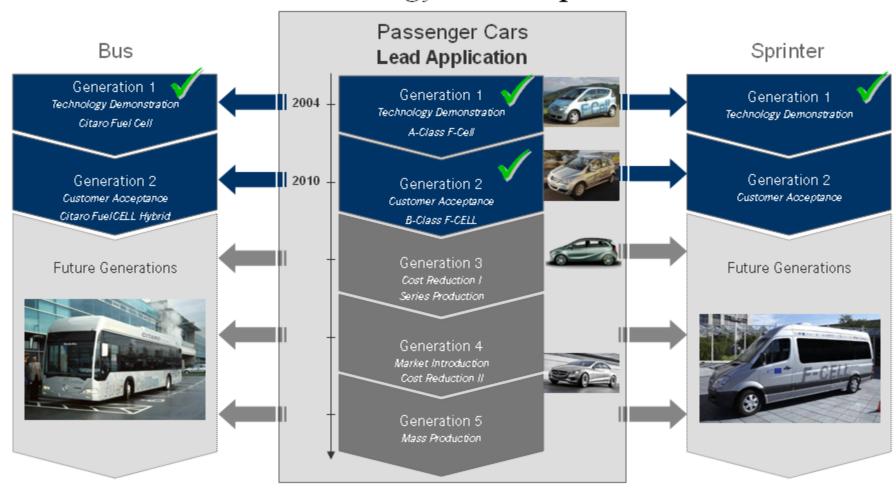


Drive Portfolio for the Mobility of Tomorrow Different mobility scenarios





Daimler's Fuel Cell Technology Roadmap

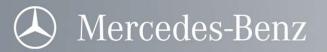


Daimler is dedicated to commercialize electric vehicles with fuel cell



Vehicle Deployments in California





F-Cell Customers Depend On Existing Hydrogen Stations

- 44 F-CELLs customers as of June 2012
- 5 stations accessible to them
- Special Access at LAX station given lack of 700 bar station in West LA/Santa Monica

Newport Beach: 33 Users



UC Irvine: back-up station



Burbank: 4 Users



Torrance: 33 Users



Santa Monica Blvd (350 bar): 15 Users



More cars have not been deployed due to lack of stations and limited station capacity



F-Cell Customer Fueling Options in Southern CA

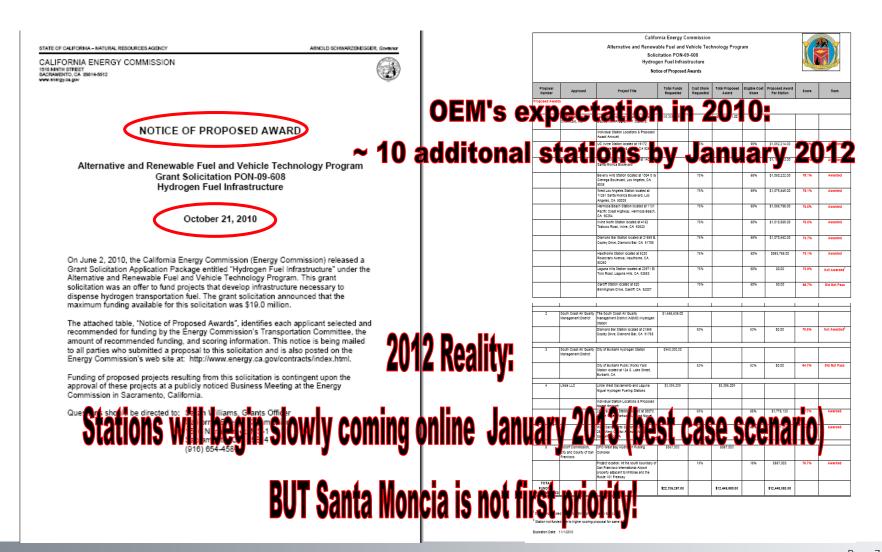
	Station
1	UC Ir∨ine
2	Torrance
3	West LA
4	Fountain Valley
5	Newport Beach
6	Burbank
7	CSU LA
8	Harbor City



- F-Cell fleet timed to arrive at same time as ARB and CEC Station Deployments
- Stations did not arrive as promised. Result: chronic complaints from F-Cell customers
- Not able to deploy F-Cells to Beverly Hills area (#1 market in CA). Cause: area stations 2 years late!



October 10, 2010: CEC PON-09-608 Notice of Award





Questions Posed by the CEC for the Workshop

- What is the best approach for selecting site locations for stations in the future?
- What defines the optimal hydrogen station location?
- How would you recommend to get your market data into the CEC selection process for hydrogen station location?



What is the best approach for selecting site locations for stations in the future?

The CaFCP Roadmap document identifies hydrogen station locations which are seen by industry to have a very high value.

Selecting station sites using these recommendations is a good starting point.

Communication with the CaFCP OEM Working Group is encouraged.

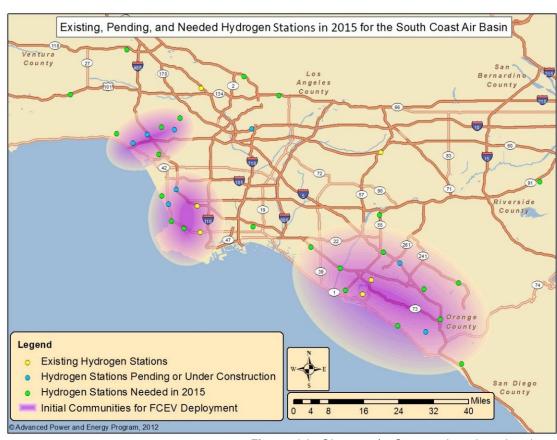


Figure AA Clusters in Greater Los Angeles Area



What defines the optimal hydrogen station location?

The optimal hydrogen station location is often hard to determine, and the method for determining the optimal location varies with each location. The process is not black and white.

For past PONs, the CaFCP OEM Working Group considered data such as, but not limited to: customer data, hand raiser data, commute patterns, traffic patterns, gasoline sales volume, space availability, proximity to freeways, proximity to major arterials, site visits, personal experience with the area, etc.

For best results, Communication with the CaFCP OEM Working Group to determine the optimal location for a hydrogen station is encouraged.



How would you recommend to get your market data into the CEC selection process for hydrogen station location?

For past PONs, each CaFCP OEM Working Group member independently considered internal and publicly available market data to determine which projects should get their support. Once completed, the CaFCP facilitated the aggregation of the individual OEM support into a consensus based Joint Letter of Support.

While Letters of Support may no longer be desired, this collaborative process which created them was highly successful and effective at determining the priority station locations.

It is the opinion of Mercedes-Benz that with slight modifications to the PON process, the requested data can be delivered in a way that satisfies their need for data, while giving the OEMs confidence that their station deployment needs will be met. This can be best done by open discussions.

Mercedes-Benz

Customer Expectations for Hydrogen Stations

Regardless of the process by which station projects are selected, the stations themselves must meet the expectations of future fuel cell vehicle customers in order to be truly successful.

Below are capabilities which must offered by future stations:

- Provide SAE J2601 H70 Type A Fills (including -40C precooling)
- Provide SAE J2601 H35 Type B Fills (including -20C precooling)
- Meet SAE J2719 fuel quality specifications
- Offer multiple dispensers per station, and both pressures at each dispenser
- Point of sale capable
- No access agreements or other contracts

